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02-11-02

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PTO/SB/05 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 42390.P12130

(maximum 12 characters)

First Named Inventor Saikumar Jayaraman, et al.Title: PHASE CHANGE MATERIAL CONTAINING FUSIBLE PARTICLES AS THERMALLY CONDUCTIVE FILLERExpress Mail Label No. EL 431 887 887 US

ADDRESS TO: **Box Patent Application**
Commissioner for Patents
Washington, D. C. 20231

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. X **Fee Transmittal Form (e.g., PTO/SB/17)**
(Submit an original, and a duplicate for fee processing)
2. **Applicant Claims Small Entity Status. (37 CFR 1.27)**
3. X **Specification (Total Pages 18 including title page)**
(preferred arrangement set forth below)
 - Descriptive Title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference sequence listing, a table,
or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. X **Drawings(s) (35 USC 113) (Total Sheets 5)**
5. X **Oath or Declaration (Total Pages 5)**
 - a. Newly Executed (Original or Copy)
 - b. Copy from a Prior Application (37 CFR 1.63(d))
(for Continuation/Divisional with Box 18 completed)
 - i. **DELETIONS OF INVENTOR(S)** Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
 - c. X Unsigned.
6. **Application Data Sheet. (37 CFR 1.76)**
7. **CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)**
8. **Nucleotide and/or Amino Acid Sequence Submission**
(if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper
 - c. Statement verifying identity of above copies

11046 U.S. PRO

10/07/1743

02/08/02

02/08/02

1043 U.S. PRO

ACCOMPANYING APPLICATION PARTS

9. _____ Assignment Papers (cover sheet & documents(s))
10. _____ a. Separate 37 CFR 3.73(b) Statement (where there is an assignee)
_____ b. Power of Attorney
11. _____ English Translation Document (if applicable)
12. _____ a. Information Disclosure Statement (IDS)/PTO-1449
_____ b. Copies of IDS Citations
13. _____ Preliminary Amendment
14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. _____ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. _____ Request and Certification under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. X Other: Express Mail Certificate of Mailing (with copy of postcard)

18A. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

_____ Continuation _____ Divisional _____ Continuation-in-part (CIP)
Of Prior Application No.: _____ Examiner _____ Group Art Unit _____
(which is a _____ continuation/ _____ divisional/ _____ CIP of prior application no. _____,
which is a _____ continuation/ _____ divisional/ _____ CIP of prior application no. _____) (List entire chain of priority)

Applicant(s): Also include a Preliminary Amendment to amend the specification to claim priority.
For CONTINUATION AND DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18B. Statement under 37 CFR 3.73(b) for continuing application:

The undersigned states that _____ (name of assignee) is the assignee of the entire right, title, and interest in the accompanying patent application by virtue of an assignment recorded in the Patent and Trademark Office at Reel No. _____ Frame No. _____ (or a copy of which is attached).

19. Correspondence Address

_____ Customer Number or Bar Code Label _____
or _____ (Insert Customer No. or Attach Bar Code Label here)

X Correspondence Address Below

NAME Michael A. Bernadicou

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

ADDRESS 12400 Wilshire Boulevard

Seventh Floor

CITY Los Angeles STATE California ZIP CODE 90025-1030

Country U.S.A. TELEPHONE (408) 720-8300 FAX (408) 720-8383

Nam (PRINT/TYPE): Michael A. Bernadicou

R gistration No.: 35,934

Signature: *Michael A. Bernadicou*

Dat : February 8, 2002

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FEE TRANSMITTAL FOR FY 2002

TOTAL AMOUNT OF PAYMENT (\$)	\$968.00
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Complete if Known:

Application No. Not yet assigned

Filing Date Herewith (2/8/2002)

First Named Inventor Saikumar Jayaraman, et al.

Group Art Unit	Not yet assigned
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Examiner Name	Not yet assigned
---------------	------------------

Attorney Docket No. 42390.P12130

METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number **02-2666**

Deposit Account Name _____

- [X] Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17**

- [] Applicant claims small entity status. See 37 CFR 1.27**

2. X Payment Enclosed: X
Check Money Order Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
101	740	201	370	Utility application filing fee	740.00
106	330	206	165	Design application filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional application filing fee	

SUBTOTAL (1) \$ 740.00

2. EXTRA CLAIM FEES

2. <u>EXTRA CLAIM FEES</u>			<u>Fee from below</u>	<u>Fee Paid</u>
		<u>Extra Claims</u>		
Total Claims	<u>28</u>	- 20** = <u>8</u>	X <u>18.00</u>	= <u>144.00</u>
Independent Claims	<u>5</u>	- 3** = <u>2</u>	X <u>42.00</u>	= <u>84.00</u>
Multiple Dependent				=

****Or number previously paid, if greater; For Reissues, see below.**

<u>Large Entity</u>		<u>Small Entity</u>		
Fee	Fee	Fee	Fee	
Code	(\$)	Code	(\$)	<u>Fee Description</u>
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multipl dependent claim, if not paid
109	84	209	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 over original patent

SUBTOTAL (2) \$ 228.00

FEE CALCULATION (continu d)

3. ADDITIONAL FEES

<u>Larg Entity</u>		<u>Small Entity</u>		<u>Fee Descripti n</u>	<u>Fee Paid</u>
<u>Fee</u>	<u>Fe</u>	<u>Fee</u>	<u>F e</u>		
<u>C de</u>	<u>(\$)</u>	<u>Code</u>	<u>(\$)</u>		
105	130	205	65	Surcharge - late filing fee or oath	_____
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	_____
139	130	139	130	Non-English specification	_____
147	2,520	147	2,520	For filing a request for ex parte reexamination	_____
099	8,800	099	8,800	Request for inter parties reexamination	_____
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	_____
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	_____
115	110	215	55	Extension for reply within first month	_____
116	400	216	200	Extension for reply within second month	_____
117	920	217	460	Extension for reply within third month	_____
118	1,440	218	720	Extension for reply within fourth month	_____
128	1,960	228	980	Extension for reply within fifth month	_____
119	320	219	160	Notice of Appeal	_____
120	320	220	160	Filing a brief in support of an appeal	_____
121	280	221	140	Request for oral hearing	_____
138	1,510	138	1,510	Petition to institute a public use proceeding	_____
140	110	240	55	Petition to revive - unavoidable	_____
141	1,280	241	640	Petition to revive - unintentional	_____
142	1,280	242	640	Utility issue fee (or reissue)	_____
143	460	243	230	Design issue fee	_____
144	620	244	310	Plant issue fee	_____
122	130	122	130	Petitions to the Commissioner	_____
123	50	123	50	Processing fee under 37 CFR 1.17(q)	_____
126	180	126	180	Submission of Information Disclosure Stmt	_____
581	40	581	40	Recording each patent assignment per property (times number of properties)	_____
146	740	246	370	For filing a submission after final rejection (see 37 CFR 1.129(a))	_____
148	110	248	55	Statutory Disclaimer	_____
149	740	249	370	For each additional invention to be examined (see 37 CFR 1.129(b))	_____
179	740	279	370	Request for Continued Examination (RCE)	_____
169	900	169	900	Request for expedited examination of a design application	_____
195	300	195	300	Publication fee for early, voluntary, or normal pub.	_____
196	300	196	300	Publication fee for republication	_____
194	130	194	130	Request for voluntary publication or republication	_____
098	130	098	130	Processing fee under 37 CFR 1.17(i) (except provisionals)	_____
091	1,280	091	1,280	Acceptance of unintentionally delayed claim for priority	_____

Other fee (specify) _____

Other fee (specify) _____

SUBTOTAL (3) \$ _____ .00

*Reduced by Basic Filing Fee Paid

SUBMITTED BY:

Typed or Printed Name: Michael A. Bernadicou

Signature: *M. Bernadicou* Date: 2/10/02

Reg. Number: 35,934 Telephone Number: (408) 720-8300

Serial/Patent No.: Not yet assigned Filing/Issue Date: Herewith
Client: Intel Corporation
Title: Phase Change Material Containing Fusible Particles as Thermally Conductive Filler

BSTZ File No.: 42390.P12130

Atty/Secty Initials: MAB/MBG/den

Date Mailed: February 8, 2002

Docket Due Date: ***

The following has been received in the U.S. Patent & Trademark Office on the date stamped hereon:

- ☐ Amendment/Response (____ pgs.)
☐ Appeal Brief (____ pgs.) (in triplicate)
☒ Application - Utility (18 pgs., with cover and abstract)
☐ Application - Rule 1.53(b) Continuation (____ pgs.)
☐ Application - Rule 1.53(b) Divisional (____ pgs.)
☐ Application - Rule 1.53(b) CIP (____ pgs.)
☐ Application - Rule 1.53(d) CPA Transmittal (____ pgs.)
☐ Application - Design (____ pgs.)
☐ Application - PCT (____ pgs.)
☐ Application - Provisional (____ pgs.)
☐ Assignment and Cover Sheet
☒ Certificate of Mailing (**Express**)
☒ Declaration & POA (5 pgs.) unsigned
☐ Disclosure Docs & Orig & Copy of Invention Signed Letter (____ pgs.)
☒ Drawings: 5 # of sheets includes 7 figures

- ☒ Express Mail No. EL431887887US ☒ Check No. 48172
☐ _____ Month(s) Extension of Time Amt: \$1052.00
☐ Information Disclosure Statement & PTO 1449 (____ pgs.) ☐ Check No. _____
☐ Issue Fee Transmittal Amt: _____
☐ Notice of Appeal
☐ Petition for Extension of Time
☐ Petition for _____
☒ Postcard
☐ Power of Attorney (____ pgs.)
☐ Preliminary Amendment (____ pgs.)
☐ Reply Brief (____ pgs.)
☐ Response to Notice of Missing Parts
☐ Small Entity Declaration for Indep. Inventor/Small Business
☒ Transmittal Letter, in duplicate
☒ Fee Transmittal, in duplicate

☐ Other: _____

EXPRESS MAIL CERTIFICATE OF MAILING

"Express Mail" mailing label number: EL 431 887 887 US

Date of Deposit: February 8, 2002

I hereby certify that I am causing this paper or fee, and the documents indicated on the postcard above, to be deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above and that this paper or fee has been addressed to: Box Patent Application, Commissioner for Patents, Washington, D. C. 20231

Dianne Neathery

(Typed or printed name of person mailing paper or fee)

Dianne Neathery 2/8/02
(Signature of person mailing paper or fee, and date of signature)